

CLAMPING MECHANISM OF MOLDING MACHINE

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ABSTRACT OF THE DISCLOSURE

10 A clamping mechanism of a molding machine, including
a bed; a stationary platen mounted on the bed, and
carrying a stationary mold; a guide bar arranged fixedly
relative to the stationary platen, and defining a
longitudinal guiding axis; a first movable platen
arranged movably relative to the stationary platen along
the guiding axis, and carrying a movable mold; a support
15 structure interposed between the guide bar and the first
movable platen, and movably supporting the first movable
platen on the guide bar along the guiding axis; a second
movable platen separate from the first movable platen,
and arranged movably relative to the stationary platen
20 along the guiding axis; a connecting member connecting
the first movable platen and the second movable platen to
each other; and a drive section for applying a drive
force to the second movable platen, to move the first
movable platen and the second movable platen along the
25 guiding axis. The support structure includes a spline
engaging surface provided on the guide bar and a ball
spline nut provided in the first movable platen, the ball
spline nut being operatively engagable with the spline
engaging surface.